TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-02-01** **Date: 04-05-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC roads in 5th, 6th cross and Anjaneya temple surroundings area in Mallasandra in Ward no 13. Shettyhalli Sub Division.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560 010

Customer's Reference : BBMP/EE/DD/WO/49/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-05-17

Sample ID No : 2017-05-02-01/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-05-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	117	145	14.5	85.5	60-95	75-100	85-100	95-100
4	1.18 mm	266	411	41.1	58.9	30-70	55-90	75-100	90-100
5	600 micron	183	594	59.4	40.6	15-34	35-59	60-79	80-100
6	300 micron	198	792	79.2	20.8	5-20	8-30	12-40	15-50
7	150 micron	172	964	96.4	3.6	0-10	0-10	0-10	0-15
8	Pan	36	1000	100	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-02-01** **Date: 04-05-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads in 5th, 6th cross and Anjaneya temple surroundings area in Mallasandra in Ward no 13. Shettyhalli Sub Division.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560 010
Customer Reference	:	BBMP/EE/DD/WO/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-01/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	254	254	5.08	94.9	90-100
3	10 mm	2865	3119	62.38	37.6	25-55
4	4.75 mm	1517	4636	92.72	7.3	0-10
5	Pan	364	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-02-01** **Date: 04-05-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads in 5th, 6th cross and Anjaneya temple surroundings area in Mallasandra in Ward no 13. Shettyhalli Sub Division.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-01/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	631	631	4.2	95.8	90-100
3	20 mm	6216	6847	45.6	54.4	30-70
4	10 mm	5543	12390	82.6	17.4	10-35
5	4.75 mm	2251	14641	97.6	2.4	0-5
6	Pan	359	15000	100.0	0	

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-02-01** **Date: 09-05-2017**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads in 5th, 6th cross and Anjaneya temple surroundings area in Mallasandra in Ward no 13. Shettyhalli Sub Division.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-01/01
Sample Type	:	Birla Super 53 Grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.22	–
2	Finess by Air permeablity method (m^2/kg, Min)	282.8	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-05-02-01**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads in 5th, 6th cross and Anjaneya temple surroundings area in Mallasandra in Ward no 13. Shettyhalli Sub Division.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-01/05
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	02/05/2017

Date: 04-05-17

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.255	4477	97.5	21.8	20.3	25.3
2	Cover Slab-2	75.49	100.52	1.222	4475	102.3	22.9	21.3	26.6
3	Cover Slab-3	75.50	100.51	1.218	4476	99.5	22.2	20.7	25.8

Note:
The results pertain to the samples received and tested.
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Prepared by
Harshitha

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-02-01** **Date: 04-05-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads in 5th, 6th cross and Anjaneya temple surroundings area in Mallasandra in Ward no 13. Shettyhalli Sub Division.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-05-02-01/04
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	03-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	8mm	0.392	532	638	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	8mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-24-01** **Date: 04-05-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads in 5th, 6th cross and Anjaneya temple surroundings area in Mallasandra in Ward no 13. Shettyhalli Sub Division.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-05-17
Sample ID No	:	2017-02-05-01/05
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	03-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	10mm	0.615	551	672	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	10mm	Satisfactory	Satisfactory

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Quality Manager

Prepared By:
Harshitha

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-16-01** **Date: 17-05-17**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements of CC roads in 5th, 6th cross and Anjaneya temple surroundings area in Mallasandra in Ward no 13. Shettyhalli Sub Division.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560 010

Customer's Reference : BBMP/EE/DD/WO/49/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-17

Sample ID No : 2017-05-16-01/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	10/05/2017	17/05/2017	150.22 X 150.75 X 150.96	22646	8.154	382.7	16.9	17.3
2	PCC	M20	10/05/2017	17/05/2017	150.79 X 150.85 X 151.97	22747	8.197	400.3	17.6	
3	PCC	M20	10/05/2017	17/05/2017	151.76 X 151.38 X 151.55	22973	8.132	399.7	17.4	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-16-01** **Date: 22-05-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads in 5th, 6th cross and Anjaneya temple surroundings area in Mallasandra in Ward no 13. Shettyhalli Sub Division.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560 010
Customer's Reference	:	BBMP/EE/DD/WO/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-17
Sample ID No	:	2017-05-16-01/03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M30	15/05/2017	22/05/2017	149.11 X 151.99 X 150.76	22663	8.125	616.4	27.2	27.0
2	Drain Concrete	M30	15/05/2017	22/05/2017	150.37 X 151.98 X 150.22	22853	8.154	601.0	26.3	
3	Drain Concrete	M30	15/05/2017	22/05/2017	150.76 X 151.28 X 150.76	22807	8.124	627.2	27.5	

Note:
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Prepared by
Harsitha

FOR CIVIL Pro.
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R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-05-04-01** **Date: 08-05-17**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads in 5th, 6th cross and Anjaneya temple surroundings area in Mallasandra in Ward no 13. Shettyhalli Sub Division.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, No.280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar. Bangalore-560 010
Customer Reference	:	BBMP/EE/DD/WO/49/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-05-17
Sample ID No	:	2017-05-04-01/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	04-05-17
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	10.0	90.0	80-100
26.5	1686	2682	26.8	73.2	55-90
9.5	1292	3974	39.7	60.3	35-65
4.75	1490	5464	54.6	45.4	25-55
2.36	1764	7228	72.3	27.7	20-40
0.425	1666	8894	88.9	11.1	10-25
0.075	896	9790	97.9	2.1	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	23.23%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE-13
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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End of Report